

Figure 1 is a block diagram of a mobile communication terminal system. The system includes a mobile communication terminal (10) and a base station (20). The mobile communication terminal (10) consists of a control unit (11), a display (12), a memory (12a), a message playback unit (12b), a message recording unit (12c), a speaker (15a), a microphone (15b), a driving circuit (15c), a handset (14), a wireless communication unit (16), a route switching unit (19), a user interface (13) with an operation key (13a) and a display panel (13b), a control I/F (18a), an audio I/F (18b), and an NCU (17). The base station (20) includes a control unit (21), a display (26), a memory (22), an operation unit (25), a communication unit (23), an audio I/F (24a), and a control I/F (24b). The system is connected to an Internet (200) and a telephone network (100).

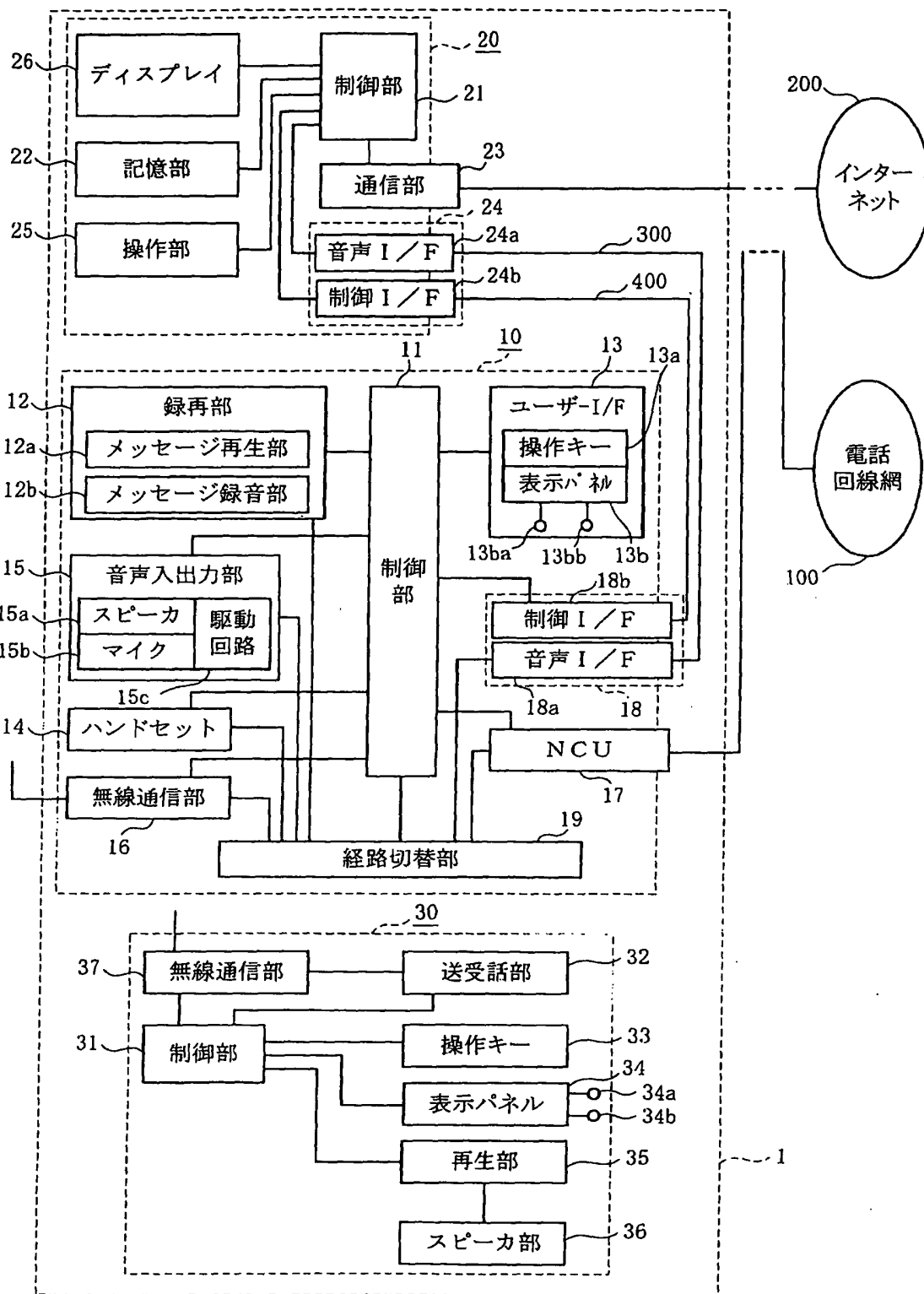


FIG. 1

- 11 CONTROL SECTION
- 12 RECORD AND PLAYBACK SECTION
 - 12a MESSAGE PLAYBACK SECTION
 - 12b MESSAGE RECORD SECTION
- 13 USER I/F
 - 13a OPERATION KEYS
 - 13b DISPLAY PANEL
- 14 HANDSET
- 15 VOICE INPUT/OUTPUT SECTION
 - 15a LOUDSPEAKER
 - 15b MICROPHONE
 - 15c DRIVE CIRCUIT
- 16 RADIO COMMUNICATION SECTION
 - 18a VOICE I/F
 - 18b CONTROL I/F
- 19 PATH SWITCHING SECTION
- 21 CONTROL SECTION
- 22 STORAGE SECTION
- 23 COMMUNICATION SECTION
 - 24a VOICE I/F
 - 24b CONTROL I/F
- 25 OPERATION SECTION
- 26 DISPLAY
- 31 CONTROL SECTION
- 32 TRANSMISSION-RECEPTION SECTION
- 33 OPERATION KEYS
- 34 DISPLAY PANEL
- 35 PLAYBACK SECTION
- 36 LOUDSPEAKER SECTION
- 37 RADIO COMMUNICATION SECTION
- 100 TELEPHONE NETWORK
- 200 INTERNET

FIG. 2

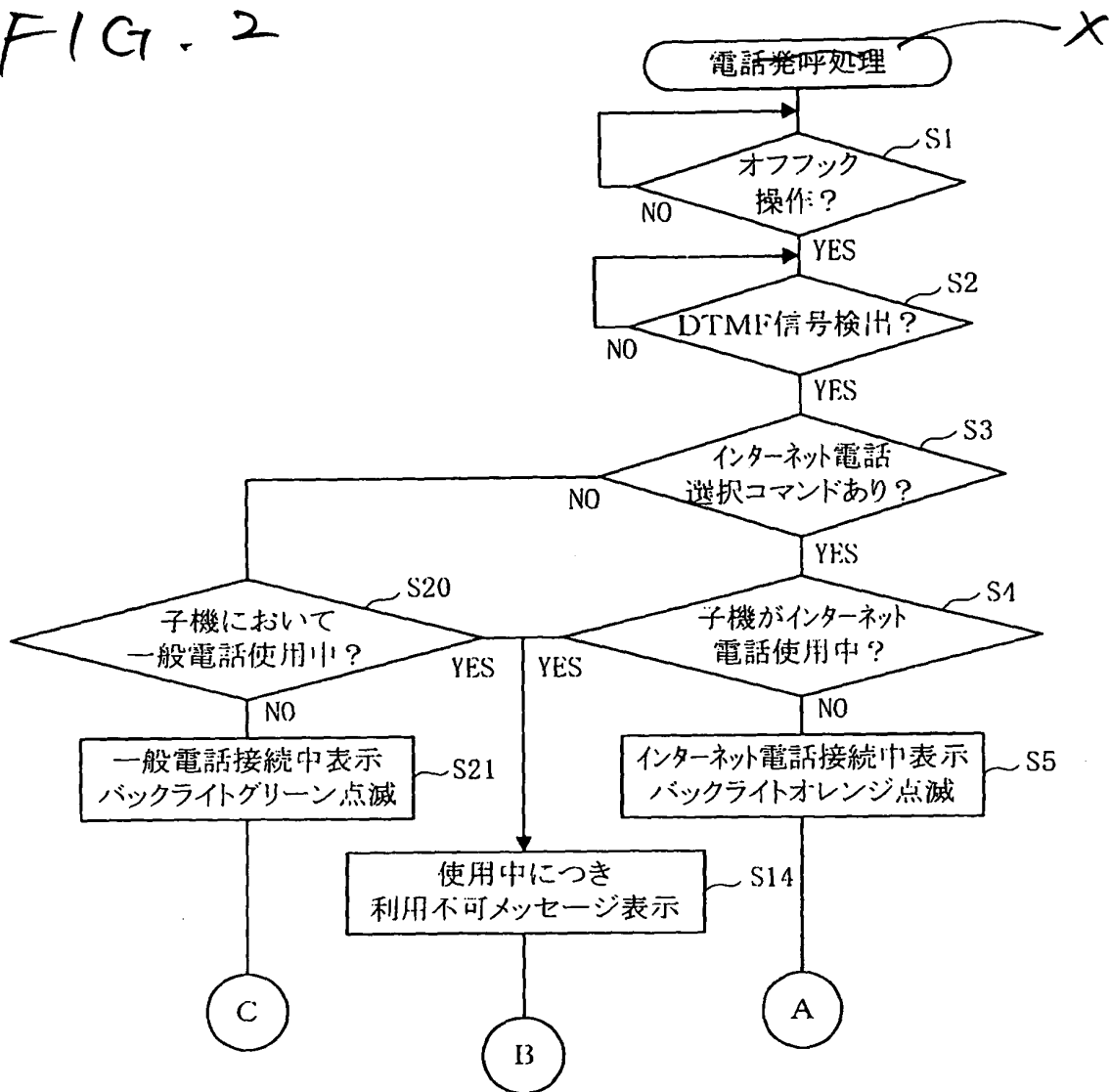


FIG. 2

X: TELEPHONE CALLING PROCESSING

S1 OFF-HOOK OPERATION PERFORMED?

S2 DTMF SIGNAL DETECTED?

S3 INTERNET TELEPHONE SELECTION COMMAND CONTAINED?

S4 IS INTERNET TELEPHONE BEING USED WITH SLAVE?

S5 DISPLAY MESSAGE "INTERNET TELEPHONE CONNECTING" AND BLINK
BACKLIGHT IN ORANGE

S14 DISPLAY MESSAGE "BUSY"

S20 IS GENERAL TELEPHONE BEING USED WITH SLAVE?

S21 DISPLAY MESSAGE "GENERAL TELEPHONE CONNECTING" AND BLINK
BACKLIGHT IN GREEN

FIG. 3

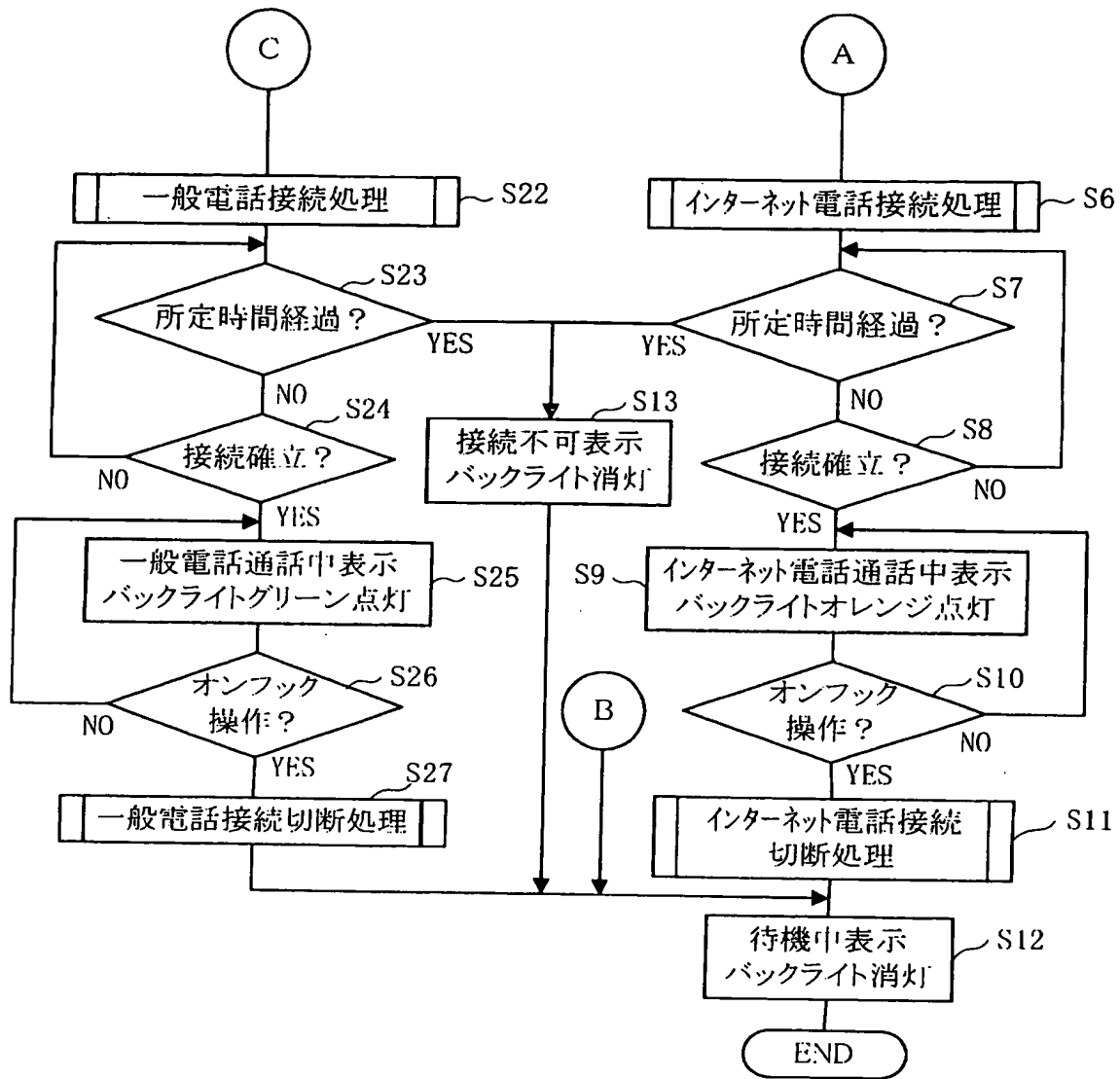


FIG. 3

S6 INTERNET TELEPHONE CONNECTION PROCESSING
S7 HAS PREDETERMINED TIME ELAPSED?
S8 CONNECTION ESTABLISHED?
S9 DISPLAY MESSAGE "INTERNET TELEPHONE CONVERSING" AND LIGHT
BACKLIGHT IN ORANGE
S10 ON-HOOK OPERATION PERFORMED?
S11 INTERNET TELEPHONE DISCONNECTION PROCESSING
S12 DISPLAY MESSAGE "STANDBY" AND EXTINGUISH BACKLIGHTS

S22 GENERAL TELEPHONE CONNECTION PROCESSING
S23 HAS PREDETERMINED TIME ELAPSED?
S24 CONNECTION ESTABLISHED?
S25 DISPLAY MESSAGE "GENERAL TELEPHONE CONVERSING" AND LIGHT
BACKLIGHT IN GREEN
S26 ON-HOOK OPERATION PERFORMED?
S27 GENERAL TELEPHONE DISCONNECTION PROCESSING

FIG. 4

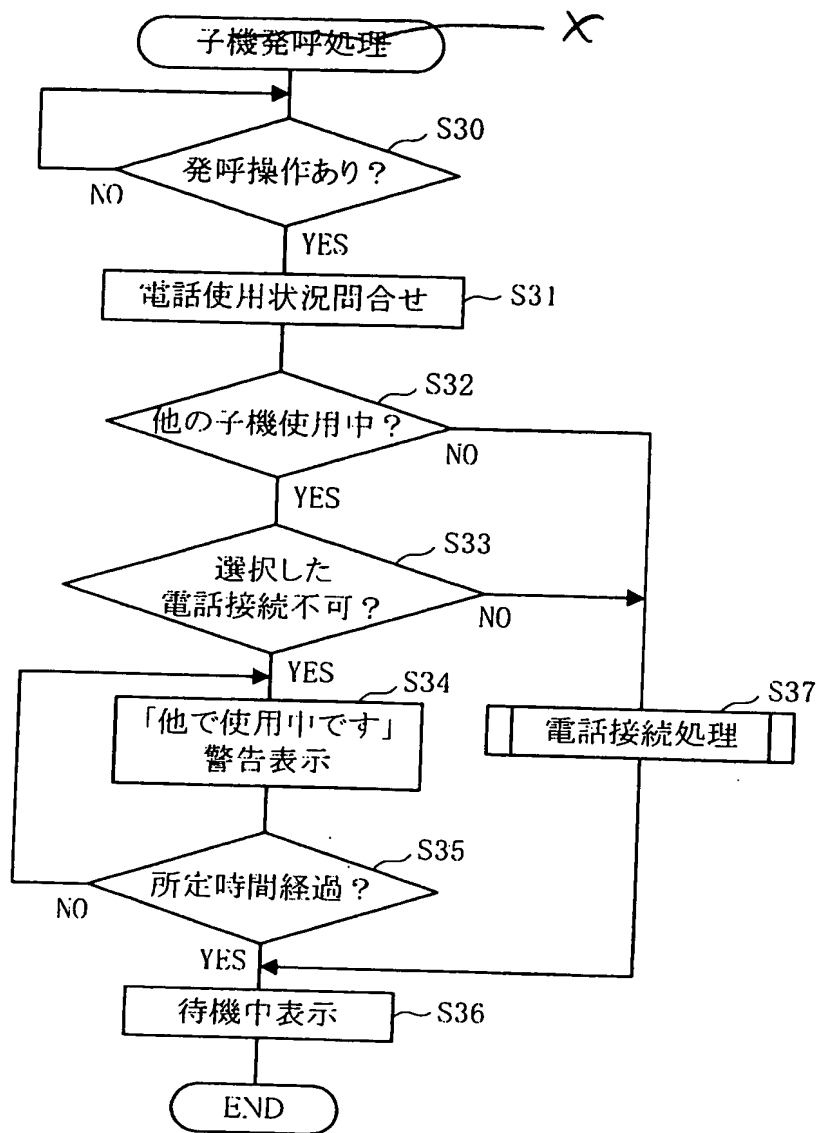


FIG. 4

X: SLAVE CALLING PROCESSING
S30 CALLING OPERATION PERFORMED?
S31 INQUIRE ABOUT TELEPHONE USE STATE
S32 IS ANY OTHER SLAVE BUSY?
S33 IS SELECTED TELEPHONE CONNECTION IMPOSSIBLE?
S34 DISPLAY WARNING "ALL BUSY"
S35 HAS PREDETERMINED TIME ELAPSED?
S36 DISPLAY "STANDBY"

S37 TELEPHONE CONNECTION PROCESSING

F/G-5

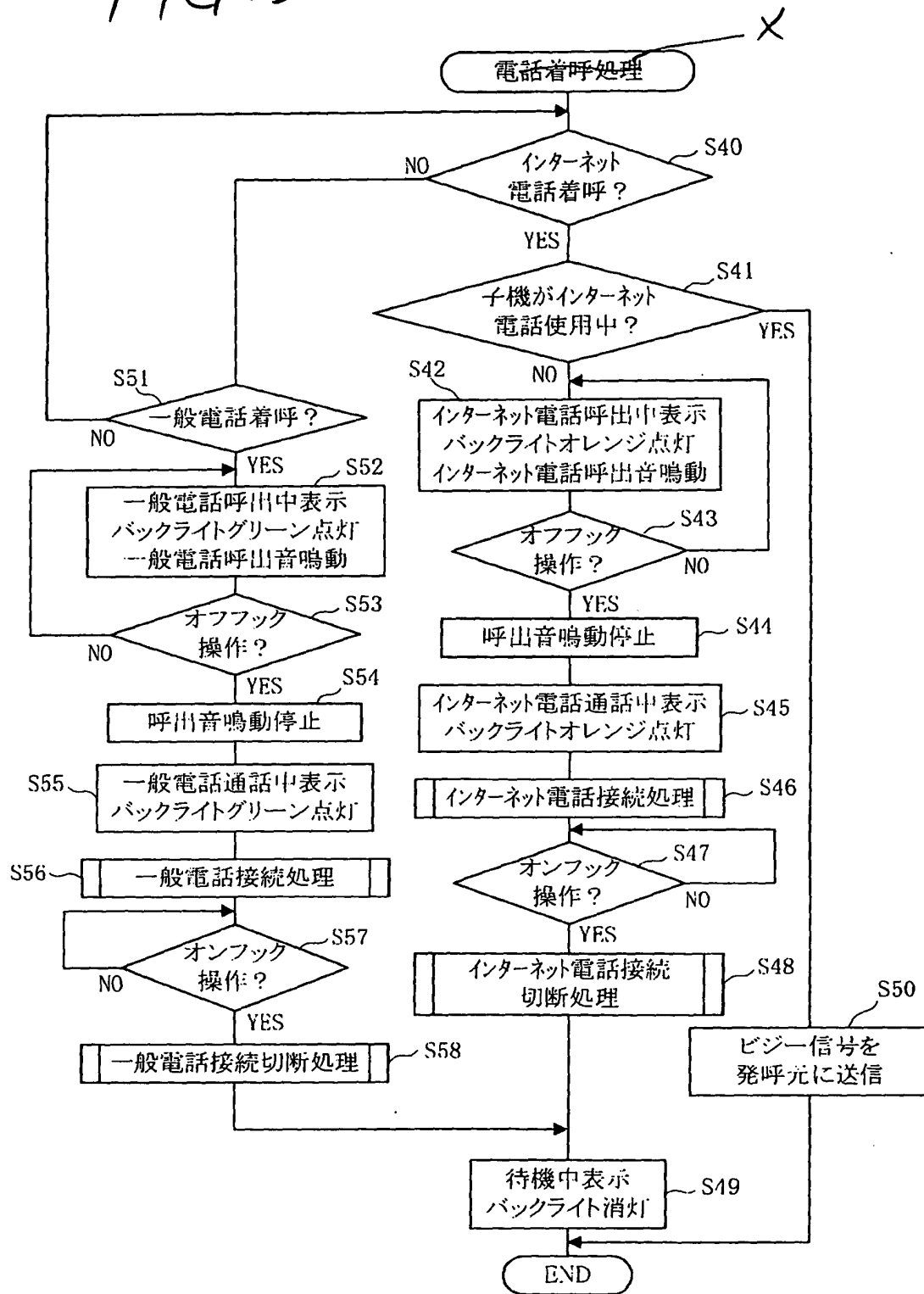


FIG. 5

X: INCOMING CALL PROCESSING

S40 INTERNET TELEPHONE INCOMING CALL?

S41 IS INTERNET TELEPHONE BEING USED WITH SLAVE?

S42 DISPLAY MESSAGE "INTERNET TELEPHONE CALLING," LIGHT
BACKLIGHT IN ORANGE, AND MAKE INTERNET TELEPHONE RING TONE

S43 OFF-HOOK OPERATION PERFORMED?

S44 STOP RING TONE

S45 DISPLAY MESSAGE "INTERNET TELEPHONE CONVERSING" AND LIGHT
BACKLIGHT IN ORANGE

S46 INTERNET TELEPHONE CONNECTION PROCESSING

S47 ON-HOOK OPERATION PERFORMED?

S48 INTERNET TELEPHONE DISCONNECTION PROCESSING

S49 DISPLAY MESSAGE "STANDBY" AND EXTINGUISH BACKLIGHT

S50 TRANSMIT BUSY SIGNAL TO CALLING PARTY

S51 GENERAL TELEPHONE INCOMING CALL?

S52 DISPLAY MESSAGE "GENERAL TELEPHONE CALLING," LIGHT
BACKLIGHT IN GREEN, AND MAKE GENERAL TELEPHONE RING TONE

S53 OFF-HOOK OPERATION PERFORMED?

S54 STOP RING TONE

S55 DISPLAY MESSAGE "GENERAL TELEPHONE CONVERSING" AND LIGHT
BACKLIGHT IN GREEN

S56 GENERAL TELEPHONE CONNECTION PROCESSING

S57 ON-HOOK OPERATION PERFORMED?

S58 GENERAL TELEPHONE DISCONNECTION PROCESSING

S49 DISPLAY MESSAGE "STANDBY" AND EXTINGUISH BACKLIGHT

S50 TRANSMIT BUSY SIGNAL TO CALLING PARTY

f1G.6

A

発呼履歴

B

C

D

Date	Time	通話時間(秒)	相手Tel No.	相手先名称	IP/PSTN
2002/7/1	10:15	150	05012345678	Mr.A	IP
2002/7/2	20:10	510	09012345678	Mr.B	PSTN
2002/7/2	20:20	20	IP電話Miss A	Miss.A	IP
2002/7/2	20:30	15	177	天気予報	PSTN
2002/7/2	20:31	100	0521110000	Mr.C	PSTN
2002/7/3	15:08	34	0331110000	D Company	PSTN

着呼履歴 G

F

H

E

F Z

Date	Time	通話時間(秒)	相手Tel No.	相手先名称	IP/PSTN
2002/7/1	11:31	150	05012345678	Mr.A	IP
2002/7/2	20:10	310	09012345678	Mr.B	PSTN
2002/7/2	20:30	25	公衆電話		PSTN
2002/7/2	20:31	100	非通知		PSTN
2002/7/3	15:08	34	0331110000	D Company	PSTN
2002/7/5	1:15	1000	IP電話Mr.O	Mr.O	IP

J

K

L

FIG. 6

- A: CALLING HISTORY
- B: DURATION (SEC)
- C: CALLED PARTY TEL NO.
- D: CALLED PARTY NAME

- E: IP TELEPHONE MISS A
- F: WEATHER FORECAST

- G: INCOMING CALL HISTORY
- F: DURATION (SEC)
- H: CALLING PARTY TEL NO.
- I: CALLING PARTY NAME

- J: PUBLIC TELEPHONE
- K: CALLER ID BLOCKING

- L: IP TELEPHONE MR. O

FIG. 7

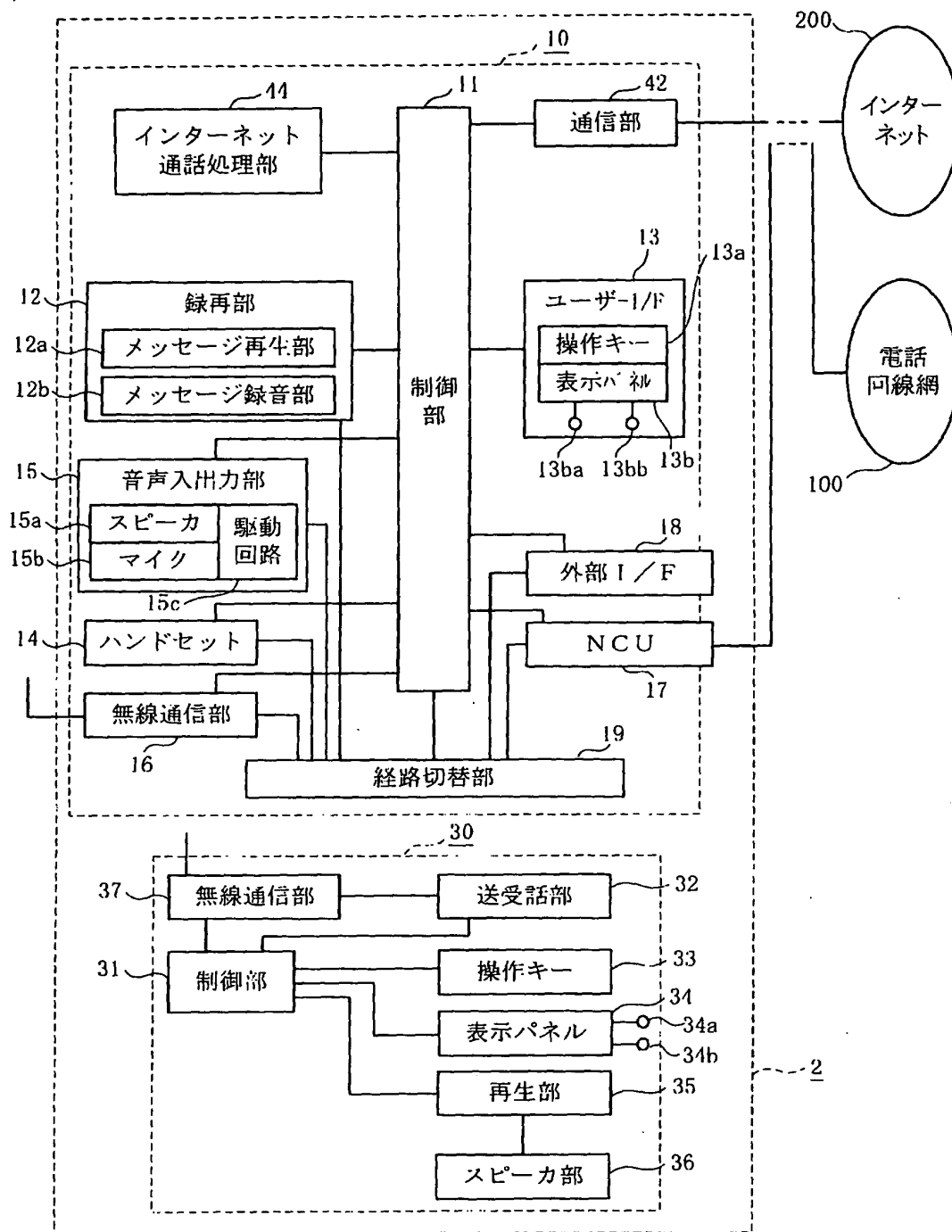


FIG. 7

- 11 CONTROL SECTION
- 12 RECORD AND PLAYBACK SECTION
 - 12a MESSAGE PLAYBACK SECTION
 - 12b MESSAGE RECORD SECTION
- 13 USER I/F
 - 13a OPERATION KEYS
 - 13b DISPLAY PANEL
- 14 HANDSET
- 15 VOICE INPUT/OUTPUT SECTION
 - 15a LOUDSPEAKER
 - 15b MICROPHONE
 - 15c DRIVE CIRCUIT
- 16 RADIO COMMUNICATION SECTION
- 18 EXTERNAL I/F
- 19 PATH SWITCHING SECTION
- 31 CONTROL SECTION
- 32 TRANSMISSION-RECEPTION SECTION
- 33 OPERATION KEYS
- 34 DISPLAY PANEL
- 35 PLAYBACK SECTION
- 36 LOUDSPEAKER SECTION
- 37 RADIO COMMUNICATION SECTION
- 42 COMMUNICATION SECTION
- 44 INTERNET CONVERSATION PROCESSING SECTION
- 100 TELEPHONE NETWORK
- 200 INTERNET